

# Energy Assessments

Your first step to help achieve energy cost savings

Business today has changed and it added a color — green. Not only do you need to meet your business and production goals, but global dynamics are forcing you to pursue energy reductions. Many companies can reduce energy consumption at their manufacturing facilities when a plan is implemented. This energy plan starts with a Rockwell Automation Energy Assessment. Our engineers will take an objective look around your plant floor to help implement an individualized plan to reduce energy consumption. An energy assessment will analyze all areas of energy usage at your facility, including electricity, gas, water, air and steam.



## Maximize Your Investment and Help Improve Sustainability

Did you know that domestic manufacturers spend more than \$33 billion on electricity each year? Motors consume 64% of that total. More than half of those motors run pumps and fans, and pumps account for 20% of worldwide electrical demand. Much of that cost is caused by inefficient systems. Those unnecessary costs negatively affect your bottom line, and energy waste sabotages any energy conservation efforts that are part of a sustainable production program for environmental and social responsibility.

Without the proper systems and components, corporate sustainability goals and plant-floor uptime goals remain mutually exclusive.

Energy costs can be controlled if the proper steps are followed. By performing an Energy Assessment, we can help you create a sustainable plan by identifying conditions, evaluating existing project results and analyzing/monitoring data collected from electrical and mechanical systems.

With energy costs being highly volatile, usage reduction is crucial. To help reduce energy costs, operations are now focused on:

- Optimizing asset and energy use
- Reducing fossil-fuel consumption
- Energy procurement negotiation
- Implementing co-generation

- Deploying alternative energy programs
- Managing peak demand energy consumption
- Reducing carbon footprint
- Energy cost as a production metric

## Energy Assessments From Rockwell Automation Can Help Minimize Energy Consumption

The scope of an Energy Assessment plan depends on your manufacturing environment and your sustainability goals. An Energy Assessment will analyze all areas of energy usage at your facility: electricity, gas, water, air and steam. Areas of focus include:

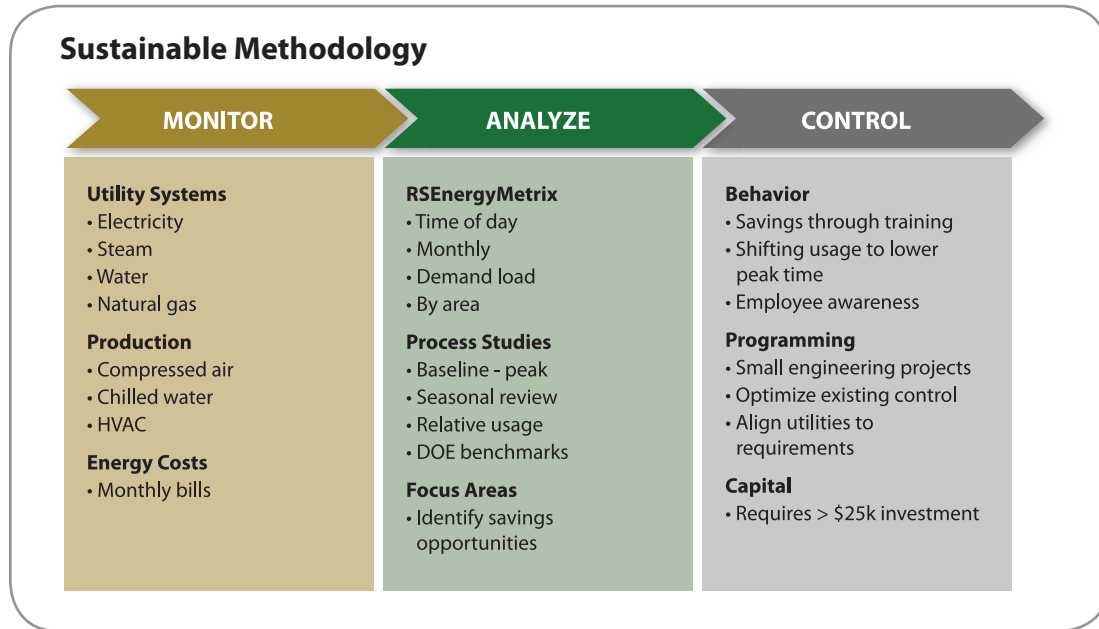
- Compressed air management
- Machine control
- Manufacturing processes
- Pumps and fans
- Facility Heating, Ventilation and Air Conditioning (HVAC)
- Drives/motors sizing
- “No package/no power” equipment
- Equipment energy savings mode
- Chilled water systems
- Boilers
- Heat recovery
- Temperature control
- Water usage

LISTEN.  
THINK.  
SOLVE.™

To help you recognize energy cost saving opportunities, Rockwell Automation can perform a general Energy Assessment. By performing this assessment, we can help you create a sustainable plan. If the scope of your needs are more extensive, a comprehensive assessment can be performed to best fit your requirements.

	General 2 to 3 days	Comprehensive 2 to 3 weeks
Utility usage review	●	●
Energy saving project identification	●	●
Energy usage review	●	●
Detailed analysis of machine/process		●
Utility usage review		●
Detailed energy usage analysis		●
Rates and tariffs analysis		●
Detailed quotations for sustainability projects		●
Return on investment calculation for projects	●	●
Prioritization of projects		●

The Rockwell Automation energy solution process begins with monitoring. Data is collected from electrical and mechanical systems and utility bills are analyzed. Utility rate plans are reviewed, and process efficiencies are identified for savings. Opportunities are then categorized and prioritized as behavioral, programming or capital investment.



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**Power, Control and Information Solutions Headquarters**

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444  
 Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640  
 Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846